

# REVIEW Dimensional Analysis, Metric Conversions, Molar Mass, Molar Conversions

Directions: Flip through your notebook and take review notes on each topic. Then solve the review problem that goes with it. Make sure to show your work and don't forget to put units in your work and your answer!

Review notes	Practice problem	
Scientific Notation	Put 0.0004523 in scientific notation	Put $3.49 \times 10^5$ in standard notation
Metric Conversions	Convert 450 mm into Dm	Convert 1.2 KL into cL
Molar Mass	Calculate the molar mass of $\text{MgBr}_2$	Calculate the molar mass of ammonium phosphate
Single Unit Dimensional Analysis	Convert 8.4 pints to grams (there are 8oz in a cup)	
Double Unit Dimensional Analysis	Convert 3.5 yds/min into km/week	
Converting from grams $\leftrightarrow$ moles	Convert 15 grams of $\text{Ca}(\text{OH})_2$ into moles	Convert 2.6 moles of sodium oxide to grams
Converting from moles $\leftrightarrow$ particles	Convert 7.4 moles of $\text{CH}_4$ into molecules	
	Convert $2.8 \times 10^{28}$ molecules into moles	
Converting from grams $\leftrightarrow$ moles $\leftrightarrow$ particles	Convert 25 grams of water into molecules	
	Convert $4.5 \times 10^{35}$ atoms of iron into grams	